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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/667,113	09/18/2003	Gabriele Barlocchi	854063.552D1	2816
500 7:	7590 08/09/2006		EXAMINER	
SEED INTELLECTUAL PROPERTY LAW GROUP PLLC			ERDEM, FAZLI	
701 FIFTH AVE SUITE 6300 SEATTLE, WA 98104-7092			ART UNIT	PAPER NUMBER
			2826	

DATE MAILED: 08/09/2006

Please find below and/or attached an Office communication concerning this application or proceeding.

ч	Application No.	Applicant(s)				
ě	10/667,113	BARLOCCHI ET AL.				
Office Action Summary	Examiner	Art Unit				
	Fazli Erdem	2826				
The MAILING DATE of this communication appears on the cover sheet with the correspondence address Period for Reply						
A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION.  - Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.  - If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.  - Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133).  Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).						
Status						
1) ☐ Responsive to communication(s) filed on 10 Ma  2a) ☐ This action is FINAL. 2b) ☐ This  3) ☐ Since this application is in condition for allowant closed in accordance with the practice under E	action is non-final. ace except for formal matters, pro					
Disposition of Claims						
4) ☐ Claim(s) 1.3-19 and 21-35 is/are pending in the 4a) Of the above claim(s) is/are withdraw 5) ☐ Claim(s) 8-19 and 21-35 is/are allowed. 6) ☐ Claim(s) 1 and 3-5 is/are rejected. 7) ☐ Claim(s) 6 and 7 is/are objected to. 8) ☐ Claim(s) are subject to restriction and/or	vn from consideration.					
Application Papers						
9) The specification is objected to by the Examiner 10) The drawing(s) filed on is/are: a) acce Applicant may not request that any objection to the of Replacement drawing sheet(s) including the correction 11) The oath or declaration is objected to by the Examiner	epted or b) objected to by the Edrawing(s) be held in abeyance. See on is required if the drawing(s) is obj	37 CFR 1.85(a). ected to. See 37 CFR 1.121(d).				
Priority under 35 U.S.C. § 119						
<ul> <li>12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).</li> <li>a) All b) Some * c) None of:</li> <li>1. Certified copies of the priority documents have been received.</li> <li>2. Certified copies of the priority documents have been received in Application No</li> <li>3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).</li> <li>* See the attached detailed Office action for a list of the certified copies not received.</li> </ul>						
Attachment(s)  1) Notice of References Cited (PTO-892)  2) Notice of Draftsperson's Patent Drawing Review (PTO-948)  3) Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08)  Paper No(s)/Mail Date	4)  Interview Summary ( Paper No(s)/Mail Dai 5)  Notice of Informal Pa 6)  Other:					

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#### **DETAILED ACTION**

## Response to Arguments

1. Applicant's arguments filed 5/10/2006 have been fully considered but they are not persuasive. Examiner agrees with the applicant that Sidner et al. does not disclose buried cavity having a wall completely surrounded by monocrystalline material. It is therefore, examiner applied a 35 USC 103 rejection rather than a 35 USC 102 rejection. Furthermore, even though Sidner et al. teaches the removing of oxide coating from the surface of the coating, it does not necessarily teach the removal of all the oxide material. It teaches the selective removal of the oxide material from the bottom surface and leaving it on the sidewalls as shown in claim 6. Furthermore, even though Elderstig does not disclose the completely enclosed cavity in a monocrystalline substrate coated with a material inhibiting epitaxial growth, it does teach the epitaxial growth inhibiting coating and Sidner et al. teach the buried cavity.

#### Allowable Subject Matter

- 1. Claims 8-19 and 21-35 allowed.
- 2. Claims 6 and 7 objected to as being dependent upon a rejected base claim, but would be allowable if rewritten in independent form including all of the limitations of the base claim and any intervening claims.

### Claim Rejections - 35 USC § 103

3. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

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(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

4. Claims 1 and 3-5 rejected under 35 U.S.C. 103(a) as being unpatentable over Sidner et al. (4,945,769) in view of Elderstig (5,690,841).

Regarding Claims 1 and 3-5, Sidner et al. disclose a semiconductor structure useful as a pressure sensor where in Fig. 2G, buried cavity is completely surrounded by monocrystalline semiconductor structure 12. Furthermore, layer 24 in Fig. 2F is a epitaxial inhibiting material which is disclosed to be one of oxide, nitride of TEOS. Sidner et al. fail to disclose this epitaxial growth inhibiting material to coat the walls of the cavity. However, Elderstig et al. disclose a method for producing cavity structures where in Fig. 5, cavity 4 has a wall coated with epitaxial inhibiting oxde material 5.

It would have been obvious to one of having ordinary skill in the art at the time the invention was made to include the required coating of the wall of the cavity in Sidner et al. as taught by Elderstig in order to have a semiconductor device with increased reliability.

#### Conclusion

5. THIS ACTION IS MADE FINAL. Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire THREE

MONTHS from the mailing date of this action. In the event a first reply is filed within TWO

MONTHS of the mailing date of this final action and the advisory action is not mailed until after

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the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the mailing date of this final action.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Fazli Erdem whose telephone number is (571) 272-1914. The examiner can normally be reached on M - F 8:00 - 5:00.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Nathan Flynn can be reached on (571) 272-1915. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

FE

July 18, 2006